

## CRF Errors Corrected by the STIC System Branch

#8 OIPE

Serial Numbr: 091974,573

CRF Processing Date: 9/26/02 0150  
Edited by: DC  
Verified by: (STIC Staff) 09/12

Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

Edited a format error in the Current Application Data section, specifically: **ENTERED**

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other \_\_\_\_\_

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_

Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_

Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/filename at end of file;  page numbers throughout text;  other invalid text, such as \_\_\_\_\_

Inserted mandatory headings, specifically: \_\_\_\_\_

Corrected an obvious error in the response, specifically: \_\_\_\_\_

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_

Other: *Inserted a "hard return" between <1517 and <1607.* \_\_\_\_\_

\* Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/974,573

DATE: 09/26/2002  
TIME: 14:21:22

Input Set : A:\PTO.DC.txt  
Output Set: N:\CRF4\09262002\I974573.raw

3 <110> APPLICANT: Williams, Roger  
4 Ried, Christian  
5 Walker, Edward H  
6 Stephens, Len  
8 <120> TITLE OF INVENTION: PHOSPHOINOSITIDE 3-KINASES  
10 <130> FILE REFERENCE: ONYX1048-US  
12 <140> CURRENT APPLICATION NUMBER: US 09/974,573  
C--> 14 <141> CURRENT FILING DATE: 2000-10-23  
16 <150> PRIOR APPLICATION NUMBER: US 60/242,801  
18 <151> PRIOR FILING DATE: 2000-10-23  
20 <160> NUMBER OF SEQ ID NOS: 1  
22 <170> SOFTWARE: PatentIn version 3.1  
24 <210> SEQ ID NO: 1  
26 <211> LENGTH: 1102  
28 <212> TYPE: PRT  
30 <213> ORGANISM: Porcine PI3K  
32 <400> SEQUENCE: 1  
34 Met Glu Leu Glu Asn Tyr Glu Gln Pro Val Val Leu Arg Glu Asp Asn  
35 1 5 10 15  
38 Arg Arg Arg Arg Arg Met Lys Pro Arg Ser Thr Ala Ala Ser Leu  
39 20 25 30  
42 Ser Ser Met Glu Leu Ile Pro Ile Glu Phe Val Leu Pro Thr Ser Gln  
43 35 40 45  
46 Arg Asn Thr Lys Thr Pro Glu Thr Ala Leu Leu His Val Ala Gly His  
47 50 55 60  
50 Gly Asn Val Glu Gln Met Lys Ala Gln Val Trp Leu Arg Ala Leu Glu  
51 65 70 75 80  
54 Thr Ser Val Ser Ala Asp Phe Tyr His Arg Leu Gly Pro Asp His Phe  
55 85 90 95  
58 Leu Leu Leu Tyr Gln Lys Lys Gly Gln Trp Tyr Glu Ile Tyr Asp Lys  
59 100 105 110  
62 Tyr Gln Val Val Gln Thr Leu Asp Cys Leu Arg Tyr Trp Lys Val Leu  
63 115 120 125  
66 His Arg Ser Pro Gly Gln Ile His Val Val Gln Arg His Ala Pro Ser  
67 130 135 140  
70 Glu Glu Thr Leu Ala Phe Gln Arg Gln Leu Asn Ala Leu Ile Gly Tyr  
71 145 150 155 160  
74 Asp Val Thr Asp Val Ser Asn Val His Asp Asp Glu Leu Glu Phe Thr  
75 165 170 175  
78 Arg Arg Arg Leu Val Thr Pro Arg Met Ala Glu Val Ala Gly Arg Asp  
79 180 185 190  
82 Pro Lys Leu Tyr Ala Met His Pro Trp Val Thr Ser Lys Pro Leu Pro  
83 195 200 205

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86 Glu Tyr Leu Leu Lys Lys Ile Thr Asn Asn Cys Val Phe Ile Val Ile  
87 210 215 220  
90 His Arg Ser Thr Thr Ser Gln Thr Ile Lys Val Ser Ala Asp Asp Thr  
91 225 230 235 240  
94 Pro Gly Thr Ile Leu Gln Ser Phe Phe Thr Lys Met Ala Lys Lys Lys  
95 245 250 255  
98 Ser Leu Met Asp Ile Pro Glu Ser Gln Asn Glu Arg Asp Phe Val Leu  
99 260 265 270  
102 Arg Val Cys Gly Arg Asp Glu Tyr Leu Val Gly Glu Thr Pro Ile Lys  
103 275 280 285  
106 Asn Phe Gln Trp Val Arg Gln Cys Leu Lys Asn Gly Glu Glu Ile His  
107 290 295 300  
110 Leu Val Leu Asp Thr Pro Pro Asp Pro Ala Leu Asp Glu Val Arg Lys  
111 305 310 315 320  
114 Glu Glu Trp Pro Leu Val Asp Asp Cys Thr Gly Val Thr Gly Tyr His  
115 325 330 335  
118 Glu Gln Leu Thr Ile His Gly Lys Asp His Glu Ser Val Phe Thr Val  
119 340 345 350  
122 Ser Leu Trp Asp Cys Asp Arg Lys Phe Arg Val Lys Ile Arg Gly Ile  
123 355 360 365  
126 Asp Ile Pro Val Leu Pro Arg Thr Ala Asp Leu Thr Val Phe Val Glu  
127 370 375 380  
130 Ala Asn Ile Gln Tyr Gly Gln Gln Val Leu Cys Gln Arg Arg Thr Ser  
131 385 390 395 400  
134 Pro Lys Pro Phe Thr Glu Glu Val Leu Trp Asn Val Trp Leu Glu Phe  
135 405 410 415  
138 Ser Ile Lys Ile Lys Asp Leu Pro Lys Gly Ala Leu Leu Asn Leu Gln  
139 420 425 430  
142 Ile Tyr Cys Gly Lys Ala Pro Ala Leu Ser Gly Lys Thr Ser Ala Glu  
143 435 440 445  
146 Met Pro Ser Pro Glu Ser Lys Gly Lys Ala Gln Leu Leu Tyr Tyr Val  
147 450 455 460  
150 Asn Leu Leu Leu Ile Asp His Arg Phe Leu Leu Arg His Gly Glu Tyr  
151 465 470 475 480  
154 Val Leu His Met Trp Gln Leu Ser Gly Lys Gly Glu Asp Gln Gly Ser  
155 485 490 495  
158 Phe Asn Ala Asp Lys Leu Thr Ser Ala Thr Asn Pro Asp Lys Glu Asn  
159 500 505 510  
162 Ser Met Ser Ile Ser Ile Leu Leu Asp Asn Tyr Cys His Pro Ile Ala  
163 515 520 525  
166 Leu Pro Lys His Arg Pro Thr Pro Asp Pro Glu Gly Asp Arg Val Arg  
167 530 535 540  
170 Ala Glu Met Pro Asn Gln Leu Arg Lys Gln Leu Glu Ala Ile Ile Ala  
171 545 550 555 560  
174 Thr Asp Pro Leu Asn Pro Leu Thr Ala Glu Asp Lys Glu Leu Leu Trp  
175 565 570 575  
178 His Phe Arg Tyr Glu Ser Leu Lys Asp Pro Lys Ala Tyr Pro Lys Leu  
179 580 585 590  
182 Phe Ser Ser Val Lys Trp Gly Gln Gln Glu Ile Val Ala Lys Thr Tyr

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183 595 600 605  
 186 Gln Leu Leu Ala Lys Arg Glu Val Trp Asp Gln Ser Ala Leu Asp Val  
 187 610 615 620  
 190 Gly Leu Thr Met Gln Leu Leu Asp Cys Asn Phe Ser Asp Glu Asn Val  
 191 625 630 635 640  
 194 Arg Ala Ile Ala Val Gln Lys Leu Glu Ser Leu Glu Asp Asp Asp Val  
 195 645 650 655  
 198 Leu His Tyr Leu Leu Gln Leu Val Gln Ala Val Lys Phe Glu Pro Tyr  
 199 660 665 670  
 202 His Asp Ser Ala Leu Ala Arg Phe Leu Leu Lys Arg Gly Leu Arg Asn  
 203 675 680 685  
 206 Lys Arg Ile Gly His Phe Leu Phe Trp Phe Leu Arg Ser Glu Ile Ala  
 207 690 695 700  
 210 Gln Ser Arg His Tyr Gln Gln Arg Phe Ala Val Ile Leu Glu Ala Tyr  
 211 705 710 715 720  
 214 Leu Arg Gly Cys Gly Thr Ala Met Leu His Asp Phe Thr Gln Gln Val  
 215 725 730 735  
 218 Gln Val Ile Asp Met Leu Gln Lys Val Thr Ile Asp Ile Lys Ser Leu  
 219 740 745 750  
 222 Ser Ala Glu Lys Tyr Asp Val Ser Ser Gln Val Ile Ser Gln Leu Lys  
 223 755 760 765  
 226 Gln Lys Leu Glu Asn Leu Gln Asn Leu Asn Leu Pro Gln Ser Phe Arg  
 227 770 775 780  
 230 Val Pro Tyr Asp Pro Gly Leu Lys Ala Gly Ala Leu Val Ile Glu Lys  
 231 785 790 795 800  
 234 Cys Lys Val Met Ala Ser Lys Lys Pro Leu Trp Leu Glu Phe Lys  
 235 805 810 815  
 238 Cys Ala Asp Pro Thr Ala Leu Ser Asn Glu Thr Ile Gly Ile Ile Phe  
 239 820 825 830  
 242 Lys His Gly Asp Asp Leu Arg Gln Asp Met Leu Ile Leu Gln Ile Leu  
 243 835 840 845  
 246 Arg Ile Met Glu Ser Ile Trp Glu Thr Glu Ser Leu Asp Leu Cys Leu  
 247 850 855 860  
 250 Leu Pro Tyr Gly Cys Ile Ser Thr Gly Asp Lys Ile Gly Met Ile Glu  
 251 865 870 875 880  
 254 Ile Val Lys Asp Ala Thr Thr Ile Ala Lys Ile Gln Gln Ser Thr Val  
 255 885 890 895  
 258 Gly Asn Thr Gly Ala Phe Lys Asp Glu Val Leu Ser His Trp Leu Lys  
 259 900 905 910  
 262 Glu Lys Cys Pro Ile Glu Glu Lys Phe Gln Ala Ala Val Glu Arg Phe  
 263 915 920 925  
 266 Val Tyr Ser Cys Ala Gly Tyr Cys Val Ala Thr Phe Val Leu Gly Ile  
 267 930 935 940  
 270 Gly Asp Arg His Asn Asp Asn Ile Met Ile Ser Glu Thr Gly Asn Leu  
 271 945 950 955 960  
 274 Phe His Ile Asp Phe Gly His Ile Leu Gly Asn Tyr Lys Ser Phe Leu  
 275 965 970 975  
 278 Gly Ile Asn Lys Glu Arg Val Pro Phe Val Leu Thr Pro Asp Phe Leu  
 279 980 985 990

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282 Phe Val Met Gly Thr Ser Gly Lys Lys Thr Ser Leu His Phe Gln Lys  
283 995 1000 1005  
286 Phe Gln Asp Val Cys Val Lys Ala Tyr Leu Ala Leu Arg His His  
287 1010 1015 1020  
290 Thr Asn Leu Leu Ile Ile Leu Phe Ser Met Met Leu Met Thr Gly  
291 1025 1030 1035  
294 Met Pro Gln Leu Thr Ser Lys Glu Asp Ile Glu Tyr Ile Arg Asp  
295 1040 1045 1050  
298 Ala Leu Thr Val Gly Lys Ser Glu Glu Asp Ala Lys Lys Tyr Phe  
299 1055 1060 1065  
302 Leu Asp Gln Ile Glu Val Cys Arg Asp Lys Gly Trp Thr Val Gln  
303 1070 1075 1080  
306 Phe Asn Trp Phe Leu His Leu Val Leu Gly Ile Lys Gln Gly Glu  
307 1085 1090 1095  
310 Lys His Ser Ala  
311 1100

**VERIFICATION SUMMARY**

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**L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date**